

APPENDIX D

**STORMWATER POLLUTION PREVENTION PLAN
FROM DAIRY OPERATIONS**

MATERIALS, MEASURES AND CONTROL PRACTICES SUMMARY TABLE

MILCO DAIRY

SIGNIFICANT MATERIAL TREATED, STORED OR DISPOSED THAT POTENTIALLY MAY BE EXPOSED TO STORMWATER	DESIGN/DISPOSAL			MEASURES AND CONTROLS		
	METHOD AND LOCATION OF ONSITE STORAGE/ DISPOSAL	DESIGN AND MANAGEMENT PRACTICES TO MINIMIZE CONTACT WITH STORMWATER RUNOFF	TREATMENT OF STORMWATER OR ULTIMATE DISPOSAL OF COLLECTED/ STORED WASTE	STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES TO REDUCE POLLUTANTS	GOOD HOUSEKEEPING/ OPERATION	INSPECTION/ RECORD-KEEPING
MANURE	Earthen Manure Storage Pond	<ul style="list-style-type: none"> Combined storage for a minimum 180 manure production with minimum 2' freeboard Prohibit surface water run-on into pond 	<ul style="list-style-type: none"> Land application per CNMP Solids removal/treatment prior to irrigation/land application 	<ul style="list-style-type: none"> Adequate storage Freeboard marker 	<ul style="list-style-type: none"> Inspection and maintenance Inspect integrity of transfer piping during manual transfer into pond Monitor regularly during manure transfer 	<ul style="list-style-type: none"> Weekly inspections for freeboard/level, discharge caused by overflow, leaks or seeps of embankment, damage caused by burrowing animals Maintain inspection/maintenance records for a minimum of five years
MANURE & SAND-LADEN MANURE	Concrete Sand Settling Basin	<ul style="list-style-type: none"> Prohibit surface water run-on into pond 	<ul style="list-style-type: none"> Land application per CNMP 	<ul style="list-style-type: none"> Adequate storage 	<ul style="list-style-type: none"> Inspection and maintenance Inspect integrity of transfer area Prevent manure/sand from getting into clean runoff surfaces during and after solids removal 	<ul style="list-style-type: none"> Weekly for freeboard/level Discharge caused by overflow Maintain inspection/maintenance records for a minimum of five years
SILAGE PAD RUNOFF	Silage Runoff Solids Collection Sump	<ul style="list-style-type: none"> Designed for solids and leachate collection prior to overflow to silage runoff storage pond 	<ul style="list-style-type: none"> Land application/irrigation 	<ul style="list-style-type: none"> Adequate storage and overflow/bypass system 	<ul style="list-style-type: none"> Inspection and maintenance 	<ul style="list-style-type: none"> Weekly for integrity and operations Maintain records for five years
SILAGE PAD RUNOFF	Silage Runoff Storage Pond	<ul style="list-style-type: none"> Minimum storage for normal precipitation during non-irrigation months plus 25 year, 24 hour storm 	<ul style="list-style-type: none"> Land application/irrigation 	<ul style="list-style-type: none"> Adequate storage 	<ul style="list-style-type: none"> Inspection and maintenance 	<ul style="list-style-type: none"> Weekly inspections for freeboard/level, discharge caused by overflow, leaks or seeps of embankment, damage caused by burrowing animals Maintain inspection/maintenance records for a minimum of five years
FUEL STORAGE	Fueling Stations	<ul style="list-style-type: none"> Fuel storage under roof in commodity building 				
CLEAN WATER DIVERSION (ROOFS, ETC)	Clean Water Areas	<ul style="list-style-type: none"> Divert clean runoff to clean water system 	<ul style="list-style-type: none"> Offsite diversion per Rule 5 permit 	<ul style="list-style-type: none"> Per Rule 5 plan 	<ul style="list-style-type: none"> Per Rule 5 plan 	<ul style="list-style-type: none"> Per Rule 5 plan

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DISTURBED AREA STABILIZATION	Per Rule 5 plan	Per Rule 5 plan	Per Rule 5 plan	Per Rule 5 plan	Per Rule 5 plan	Per Rule 5 plan
ACCESS ROADS FOR RAW MATERIALS, PRODUCTS, WASTE MATERIALS OR BY-PRODUCTS	Access Roads and Building Aprons	<ul style="list-style-type: none"> Keep areas clean of feed or manure 	<ul style="list-style-type: none"> Runoff to clean water system 	<ul style="list-style-type: none"> Cleaning, maintenance care in handling materials 	<ul style="list-style-type: none"> Cleaning, maintenance care in handling materials 	<ul style="list-style-type: none"> Inspections weekly or more often
MATERIAL HANDLING SITES (NOT MANURE OR WASTEWATER)	On Waste Containment and Collection Areas in Building or Silage Pad	On Waste Containment and Collection Areas in Building or Silage Pad	On Waste Containment and Collection Areas in Building or Silage Pad	On Waste Containment and Collection Areas in Building or Silage Pad	On Waste Containment and Collection Areas in Building or Silage Pad	On Waste Containment and Collection Areas in Building or Silage Pad
SHIPPING AND RECEIVING AREAS	Milk Loading Area	<ul style="list-style-type: none"> Pressurized loading system 	N/A	Hoses and piping	<ul style="list-style-type: none"> Hose inspection 	<ul style="list-style-type: none"> Included in site plan
DEAD COWS	Offsite rendering for disposal	<ul style="list-style-type: none"> Kept on silage pad until removal within 24 hours 				
CALF HUTCHES	Concrete Slab (location to be determined)	<ul style="list-style-type: none"> Hutches have roofs Runoff onto silage pad 	<ul style="list-style-type: none"> Bedding to land application/composting Runoff to runoff storage pond 			
CLEAN STORMWATER	Clean Stormwater Detention Basin	<ul style="list-style-type: none"> Avoid waste in stormwater collection/diversion 	<ul style="list-style-type: none"> Outlet pipe design 	<ul style="list-style-type: none"> Settling/sediment removal 	<ul style="list-style-type: none"> Inspection and Maintenance Sediment removal 	<ul style="list-style-type: none"> Weekly inspections

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MATERIAL HANDLING/ EQUIPMENT WASHING/ CLEANING AREA	Concrete slab (silage pad or new area)	<ul style="list-style-type: none"> Collect runoff from pad area 	<ul style="list-style-type: none"> Runoff to storage pond 	<ul style="list-style-type: none"> See storage structure 	<ul style="list-style-type: none"> See storage structure 	<ul style="list-style-type: none"> See storage structure
EQUIPMENT MAINTENANCE AREA	Roofed area, concrete slab or silage pad	<ul style="list-style-type: none"> Under roof Collect runoff Collect fuels/lubricants 	<ul style="list-style-type: none"> Collected fuels/lubricants offsite disposal Runoff to storage pad 	<ul style="list-style-type: none"> See storage structure 	<ul style="list-style-type: none"> See storage structure 	<ul style="list-style-type: none"> See storage structure
REFUSE SITES	In commercial dumpster	<ul style="list-style-type: none"> Watertight/leak-proof Covered lid 	<ul style="list-style-type: none"> Collected by commercial company 	<ul style="list-style-type: none"> Covered Leak-proof 	<ul style="list-style-type: none"> Clean container in good operation condition 	<ul style="list-style-type: none"> Weekly inspections
CHEMICALS USED IN OPERATIONS	Inside structures – full containers	<ul style="list-style-type: none"> Chemicals stored indoors Empty sealed containers stored outside in refuse area 	<ul style="list-style-type: none"> Per manufacturer's requirements 	<ul style="list-style-type: none"> Indoors 	<ul style="list-style-type: none"> Inspection and care in unloading, handling Keep in low traffic areas to avoid accidental spillage 	<ul style="list-style-type: none"> Inspections and record-keeping
WASTE FEED AND BEDDED PACK	On silage pad	<ul style="list-style-type: none"> Silage pad 	<ul style="list-style-type: none"> Land application or composting 	<ul style="list-style-type: none"> Pad runoff control 	<ul style="list-style-type: none"> See silage pad/pond 	<ul style="list-style-type: none"> See silage pad/pond